

Abstract

A fuel injection valve (1), in particular an injection valve for fuel injection systems of internal combustion engines, is made of a piezoelectric or magnetostrictive actuator (3) and a valve closing body (18) that can be set in motion by the actuator (3) via a valve needle (17) and that interacts with a valve seat surface (19) to produce a seat. To compensate for the temperature expansion, at least one damping element (25a, 25b) made of a solid is present and exhibits an almost static behavior at a high deformation rate and is elastically or plastically deformable at a low deformation rate.

(Figure 1)